

NC1190 Catalysts for Water Resources Protection and Restoration: Applied Social Science Research

Outputs 2014-2015

Journal Articles, Technical Reports, Etc. in 2014-2015 (n=56)

Arbuckle, J. Gordon Jr. and Gabrielle Roesch-McNally. Forthcoming. Cover crop adoption in Iowa: The role of perceived practice characteristics. *Journal of Soil and Water Conservation*

Arbuckle, J. Gordon Jr. and Hanna Bates. 2015. *Farmer Perspectives on Iowa's Nutrient Reduction Strategy*. Extension Report PM3072. Ames, IA: Iowa State University Extension.

Arbuckle, J. Gordon Jr. and Hanna Rosman. 2014. *Iowa Farmers' Nitrogen Management Practices and Perspectives*. Extension Report PM3066. Ames, IA: Iowa State University Extension.

Arbuckle, J. Gordon Jr., John C. Tyndall, and Emily Sorensen. 2015. Iowans' Perspectives on Targeted Approaches for Multiple-Benefit Agriculture. Technical Report No. 1038. Ames, IA: Iowa State University Extension Sociology.

Arbuckle, J.G. Jr., J. Hobbs, A. Loy, L.W. Morton, L.S. Prokopy, J. Tyndall. 2014. "Understanding Corn Belt farmer perspectives on climate change to inform engagement strategies for adaptation and mitigation." *Journal of Soil and Water Conservation* 69(6):505-516.

Babin, N., N.D. Mullendore & L.S. Prokopy. Using Social Criteria to Site Novel Non-point Source Agricultural Pollution Projects. *Land Use Policy*

Bitsura-Meszaros, K., McCreary, A., Smith, J. W., Seekamp, E., Davenport, M. A., Nieber, J., Wilson, B., Anderson, D. H., Messer, C., & Kanazawa, M. (2015). Examining tourism destination risk and community adaptive capacity along the north shore of Lake Superior. *Michigan Journal of Sustainability*. <http://dx.doi.org/10.3998/mjs.12333712.0003.009>.

Bitsura-Meszaros, K., McCreary, A., Smith, J. W., Seekamp, E., Davenport, M. A., Nieber, J., Wilson, B., Anderson, D. H., Messer, C., & Kanazawa, M. (In press). Examining tourism destination risk and community adaptive capacity along the north shore of Lake Superior. *Michigan Journal of Sustainability*.

Burbach, M.E., Floress, K., & Kaufman, E.K. (2015). Are water-related leadership development programs designed to be effective? An exploratory study. *Journal of Leadership Education*, 14(1), 107-123.

Czap, H.J., Czap, N.V., Lynne, G.D., & Burbach, M.E. (2014, September). Empathy conservation: Experiments suggest a need for more attention in policymaking. UNL CAFIO-Policy Research Group, Policy Paper 11.

Czap, N.V., Czap, H.J., Lynne, G.D., & Burbach, M.E. (2015). Walk in my shoes: Nudging for empathy conservation. *Ecological Economics*, 118, 147-158.

Davenport, M.A., Pradhananga, A., & Olson, B. (2014). *Cannon River Watershed: Landowner survey on water resources and conservation action*. Staff Paper No. 229. St. Paul, MN: Department of Forest Resources, University of Minnesota. 72 pp.

Dutterer, Andrew and Richard D. Margerum. 2014. "The Limitations of Policy Level Collaboration: A Meta-Analysis of CALFED." *Society and Natural Resources*. 28(1): 21-37.

Floress, Akamani, Halvorsen, Kozich, Davenport, 2015. The role of social science in successfully implementing watershed management strategies. *Journal of Contemporary Water Research and Education*, 154.

Floress, K., Akamani, K., Halvorsen, K.E., Kozich, A., & Davenport, M.A. (2015). The roles of social sciences in successfully implementing watershed management strategies. *Journal of Contemporary Water Research and Education*, 154, 85-105.

Gillon, Sean G., Eric Booth, and Adena R. Rissman. 2015. Shifting drivers and static baselines in environmental governance: challenges for proving and improving water quality outcomes. *Regional Environmental Change*. DOI: 10.1007/s10113-015-0787-0.

Hansen, L., .D. Hellerstein, M. Ribaldo, J. Williamson, D. Nulph, C. Loesch, and W. Crumpton. 2015. *Targeting Investments to Cost-Effectively Restore and Protect Wetland Ecosystems: Some Economic Insights*, Economic Research Report, ERR-183, Economic Research Service, U.S. Department of Agriculture, February.

Hoffman Babbitt, C., Burbach, M.E, & Pennisi, L. (2015). A mixed methods approach to assessing success in transitioning water management institutions: A case study of the Platte River Basin, Nebraska. *Ecology & Society*, 20(1), 54.

Iho, Antti, M. Ribaldo, and K. Hyytiäinen. 2015. "Water protection in the Baltic Sea and the Chesapeake Bay – Institutions, policies and efficiency," *Marine Pollution Bulletin* 93(1-2):81-93.

K.R. Olson, J. Matthews, L.W. Morton, and J Sloan. 2015. Impact of levee breaches, flooding, and land scouring on soil productivity. *JSWC* 70:1:5A-11A.

Kenneth R. Olson and Lois Wright Morton, (2014). The 2011 Ohio River flooding of the Cache River Valley in southern Illinois. *Journal of Soil and Water Conservation*, 69 (1), 5A-10A

Kenneth R. Olson and Lois Wright Morton. (2014). Dredging of the fractured bedrock-lined Mississippi River Channel at Thebes, Illinois. *Journal of Soil and Water Conservation*, 69 (2) 31A-35A

Kenneth R. Olson and Lois Wright Morton. (2014). Runaway barges damage Marseilles Lock and Dam during 2013 flood on the Illinois River. *Journal of Soil and Water Conservation*, 69 (4), 104A

Lois Wright Morton and Kenneth R. Olson. (2014). Addressing soil degradation and flood risk decision making in levee protected agricultural lands under increasingly variable climate conditions. *Journal of Environmental Protection*. 5:1220-1234.

- Long, Scot and Richard Moore. 2015. Amish Church District Fissioning and Watershed Boundaries among Holmes County, Ohio, Amish. *Journal of Amish and Plain Anabaptist Studies*.
- Margerum, Richard D. and Catherine Robinson 2014. "Collaborative partnerships and the challenges for sustainable water management." *Current Opinion in Environmental Sustainability*. 12: 53–58.
- Mase, A.S., Babin, N., Prokopy, L.S. & K. Genskow. 2015. Trust in sources of soil and water quality information: Implications for environmental outreach and education. *Journal of the American Water Resources Association (JAWRA)*
- McGuire, Jean, Lois Wright Morton, J. Gordon Arbuckle Jr., and Alicia Cast. 2015. Farmer Identities and Responses to the Social-Biophysical Environment. *Journal of Rural Studies* 39:145-155.
- McPadden, Ray and Richard D. Margerum. 2014. "Improving National Park Service and nonprofit partnerships—lessons from the national trail system. *Society and Natural Resources*. 27(12): 1321-1330.
- Morton, L. W. (2014). The science of variable climate and agro-ecosystem management. *JSWC*. Special issue Climate and Agriculture 69:6:2017A-212A
- Morton, L.W. Achieving water security in agriculture: The Human Factor. (2014) Greening he Agricultural Water System. *Agronomy Journal* 106:1-4 doi:10.2134/agronj14.0039
- Morton, L.W. and K. R. Olson (2015) Sinkholes and sand boils during 2011 record flooding in Cairo, Illinois *JSWC* 70(3):49A-54A.
- Morton, L.W., J. Hobbs, J. Arbuckle, and A. Loy. (2015) Upper Midwest Climate Variations: Farmer Responses to Excess Water Risks. *Journal Environmental Quality*. 44:810-822 doi:10.2134/jeq2014.08.0352
- Mullendore, Nathan D., Jessica D. Ulrich-Schad, and Linda Stalker Prokopy. 2015. "U.S. Farmers' Sense of Place and Its Relation to Conservation Behavior." *Landscape and Urban Planning* 140: 67-75.
- Obade, Vincent de Paul, Rattan Lal, and Richard Moore. 2014. "Assessing the Accuracy of Soil and Water Quality Characterization Using Remote Sensing." *Water Resources Management*. Vol. 1, (Jan 2014): 1-19.
- Olson KR and LW Morton. (2014). Dredging of the Fractured Bedrock Laden Mississippi River Channel at Thebes, Illinois *JSWC* Mar/Apr 69:2:31A-35A doi:10.2489/jswc.ed.2.31A
- Olson, K. R. and L. W. Morton (2015) Slurry trenches and relief wells installed to strengthen Ohio and Mississippi river levee systems. *Journal Soil & Water Conservation* 70(4):49A-53A
- Olson, K.R. and L. W. Morton (2014) Runaway barges damage Marseilles Lock and Dam during 2013 flood on the Illinois River. *JSWC* 69:4:104A-109A.

- Olson, K.R. and L.W. Morton. (2014). The 2011 Ohio River flooding of the Cache River Valley in southern Illinois. *JSWC* Jan/Feb 69:1:167A-172A.
- Pradhananga, A. & Davenport, M.A. (2014). *An assessment of agricultural conservation practices and Minnesota FarmWise in the Cannon River Watershed*. St. Paul, MN: Department of Forest Resources, University of Minnesota. Staff Paper #234. 46 pp.
- Arbuckle, J. Gordon Jr. 2015. *Iowa Farm and Rural Life Poll: 2014 Summary Report*. Extension Report PM3073. Ames, IA: Iowa State University Extension.
- Pradhananga, A. & Davenport, M.A. (2015). *Community capacity assessment in the Cannon River Watershed*. St. Paul, MN: Department of Forest Resources, University of Minnesota. 75 pp.
- Pradhananga, A. & Davenport, M.A. (Accepted). Landowner motivations for civic engagement in water resource protection. *Journal of the American Water Resources Association*.
- Pradhananga, A. & Davenport, M.A. (In press). Landowner motivations for civic engagement in water resource protection. *Journal of the American Water Resources Association*.
- Pradhananga, A., Davenport, M.A., Seekamp, E. & Bundy, D. (2015). Preventing the spread of aquatic invasive species: Boater concerns, habits, and future behaviors. *Human Dimensions of Wildlife*. <http://dx.doi.org/10.1080/10871209.2015.1030479>.
- Pradhananga, A., Hilmoie, C., & Davenport, M.A. (2014). *Social measures monitoring system for Minnesota Pollution Control Agency's Participatory Program Development Project*. St. Paul, MN: Department of Forest Resources, University of Minnesota. 122 pp.
- Pradhananga, A., Perry, V., & Davenport, M.A. (2014). *A social science assessment of conservation practices in the Red River Basin*. St. Paul, MN: Department of Forest Resources, University of Minnesota. 113 pp.
- Prokopy, L.S. L.W. Morton, J.G. Arbuckle, A.S. Mase, and A. Wilke. 2015. Agricultural stakeholder views on climate change: Implications for conducting research and outreach. *Bulletin of the American Meteorological Society* 96:181-190.
- Reimer, Adam, Aaron Thompson, Linda Stalker Prokopy, J. Gordon Arbuckle, Ken Genskow, Douglas Jackson-Smith, Gary Lynne, Laura McCann, Lois Wright Morton, and Pete Nowak. 2014. "People, place, behavior, and context: A research agenda for expanding our understanding of what motivates farmers' conservation behaviors." *Journal of Soil and Water Conservation* 69:57A-61A
- Ribaudo, M. 2015. "The Limits of Voluntary Conservation Programs," *Choices* <http://www.choicesmagazine.org/choices-magazine/submitted-articles/the-limits-of-voluntary-conservation-programs>
- Ribaudo, M., and J. Savage, 2014, "Controlling Non-additional Credits from Nutrient Management in Water Quality Trading Programs Through Eligibility Baseline Stringency," *Ecological Economics* 105:233-239.

Ribaudo, M., J. Savage, and M. Aillery, 2014, *An Economic Assessment of Policy Options to Reduce Agricultural Pollutants in the Chesapeake Bay*, Economic Research Report, ERR-166, Economic Research Service, U.S. Department of Agriculture, June.

Rissman, Adena R. and Stephen R. Carpenter. In press. Progress on nonpoint pollution: barriers and opportunities. *Daedalus* (Journal of the American Academy of Arts and Sciences) special issue on water.

Simoni and Floress, 2015. An exploration of place meanings among residents in Central Wisconsin. *Lake and Reservoir Management*, 31(1):1-10.

Wardropper, Chloe, Chaoyi Chang, and Adena R. Rissman. 2015. Fragmented water quality governance: constraints to spatial targeting for nutrient reduction in a Midwestern USA watershed. *Landscape and Urban Planning*.

Yost, M. Coulter, J. Russelle, M. & Davenport, M.A. (2014). Cash in on N credits when corn follows alfalfa. *Hay and Forage Grower*, January, 24-25.

Yost, M.A., Coulter, J.A., Russelle, M.P., & Davenport, M.A. (2014). Opportunities exist to improve alfalfa and manure nitrogen crediting in corn following alfalfa. *Agronomy Journal*.

Presentations between 10/1/2014 and 9/30/2015 (n=46)

Arbuckle, J. Gordon Jr. “Farmer Perspectives on Nutrient Management and N Loss Reduction: Results from the Iowa Farm and Rural Life Poll.” Squaw Creek Watershed Management Authority. Ames, IA. July 9, 2015.

Arbuckle, J. Gordon Jr. “Farmer Perspectives on Nutrient Management and N Loss Reduction: Results from the Iowa Farm and Rural Life Poll.” ISU Extension Crops Team In-Service. Ames, IA. March 30, 2015.

Arbuckle, J. Gordon Jr. “Farmer Perspectives on Nutrient Management and N Loss Reduction: Results from the Iowa Farm and Rural Life Poll.” ISU Natural Resources and Environmental Stewardship Extension In-Service. Ames, IA. September 25, 2014.

Arbuckle, J. Gordon Jr. “Farmer Perspectives on the Iowa Nutrient Reduction Strategy.” Iowa AgState Meeting. Ames, IA. August 27, 2015.

Arbuckle, J. Gordon Jr. “Iowa farmers’ willingness to take action in support of the Iowa Nutrient Reduction Strategy.” Soil and Water Conservation Society Conference, Greensboro, NC, July 27, 2015.

Arbuckle, J. Gordon Jr. and Gabrielle Roesch-McNally “Farmer Perspectives on Soil Health.” Soil and Water Conservation Society Conference, Greensboro, NC, July 28, 2015.

Bates, Hanna and J. Gordon Arbuckle. “I just call it practical economics – survival economics’: Understanding Nutrient Management for Improved Conservation.” Soil and Water Conservation Society Conference, Greensboro, NC, July 28, 2015.

Bilotta, J. & Davenport, M.A. (2014). Conservation marketing: To whom and how to. Workshop presented at *Minnesota Board of Water and Soil Resources Academy*, Brainerd, MN November 29, 2014.

Burbach, Mark E. “Full Range Leadership for Leaders in the Water Arena.” Nebraska State Irrigation Association, Lincoln, NE, January 22, 2015.

Burbach, Mark E. “Full Range Leadership for the Daugherty Water for Food Institute.” Daugherty Water for Food Institute, Lincoln, NE, April 3, 2015.

Burbach, Mark E. “Personal Empowerment – Continuing to Develop Your Environmental Leadership Capacity.” Nebraska State Irrigation Association, Nebraska City, NE, November 21, 2014.

Burbach, Mark E. “Tapping into Your Motivation to Serve and Inspiring Others in Their Service.” Nebraska State Irrigation Association, Nebraska City, NE, November 21, 2014.

Cramer, JoLeisa and Mark E. Burbach. “The Nebraska Water Leaders Academy – Preparing Nebraska’s Future Water Leaders.” 2014 Lower Platte River Summit, Ashland, NE, November 6, 2014.

Davenport, M.A. & Perry, V. (2015). Qualitative interviewing and analysis training. Training workshop presented to Middle Minnesota River Water Resource Professionals, Mankato, MN, June 4, 2015.

Davenport, M.A. (2014). A framework for assessing and building climate readiness in recreation and tourism systems. *Second Conference on Climate Adaptation*, Minneapolis, MN November 6, 2014.

Davenport, M.A. (2015). AIS program performance: Evaluating community capacity building. Plenary panel presentation at *Aquatic Invaders Summit*, St. Cloud, MN, January 21, 2015.

Davenport, M.A. (2015). AIS strategic planning: Tracking community outcomes. Seminar presented to St. Croix River Association, St. Croix Falls, WI, April 9, 2015.

Davenport, M.A. (2015). Community capacity in watershed planning. Seminar presented in Wisconsin Watershed Planning Workshop, Eau Claire, WI, August 6, 2015.

Davenport, M.A., Perry, V. & Pradhananga, A. (2014). Community capacity for stormwater management in the Twin Cities metro area. Report presented to *Capitol Region Watershed District Citizens’ Advisory Committee*, St. Paul, MN, December 10, 2014.

Davenport, M.A., Perry, V. & Pradhananga, A. (2014). Community capacity for stormwater management in the Twin Cities metro area. Report presented to *Capitol Region Watershed District Project Advisory Team*, St. Paul, MN, December 3, 2014.

Davenport, M.A., Perry, V. & Pradhananga, A. (2014). Community capacity for stormwater management in the Twin Cities metro area. Report presented to *Capitol Region Watershed District Board*, November 19, 2014.

- Fellows, S. & Davenport, M.A. (2015). Logger decision making and conservation action in northern Minnesota. *International Symposium on Society and Resource Management*, June 13-18, 2013, Charleston, SC.
- Floress, K. (2014). Community capacity for successful lake management plan implementation. Invited oral presentation, Lake Leaders Institute, Woodruff, WI, September 19th, 2014.
- Floress, K. (2015). Community capacity for watershed management: Governance and scale. Invited oral presentation, Michigan Technological University, Houghton, MI, March 2015.
- Hession W. [Pres], E. ANDRUSZKIEWICZ*, I. BICK*, C. WIKLUND*, Z. Easton, S. Houston*, D. Scott, L. Krometis, E. Kaufman. (2014, June). Designing the Next Generation of Denitrifying Bioreactors: Coupled Biological and Physiochemical Processes to Remediate Nitrogen and Phosphorus. Poster presentation at the 14th Annual Meeting of the American Ecological Engineering Society. June 9 – 11, 2014. Charleston, SC.
- Hilmoe, C. Pradhananga, A. & Davenport, M.A. (2014). Integrated public participation: Focus on assessment methods and measures. Part two of a workshop series presented to Minnesota Pollution Control Project Managers and Partners. Mankato, MN October 27, 2014.
- Jessica D. Ulrich-Schad, Caroline Brock, and Linda Stalker Prokopy. (August 2015). “Conservation Practice Adoption and Attitudes Among Amish Farmers.” *Rural Sociological Society Annual Meeting*; Madison, WI.
- Jessica D. Ulrich-Schad, Nick Babin, Zhou Ma, and Linda Stalker Prokopy. (March 2015). “Out of state, out of mind? Absentee landowners and conservation practice decision making.” *Midwest Sociological Society Annual Meeting*; Kansas City, MO.
- Jessica D. Ulrich-Schad. (December 2014). “Nutrient Management among Indiana’s Agricultural Producers.” *Indiana Corn Growers Association*; Indianapolis, IN.
- Jessica D. Ulrich-Schad. (January 2015). “Social Indicators: A Tool for Increasing Conservation Adoption.” *Indiana Watershed Leadership Academy*; Spencer, IN.
- Katz, K., Duever, B., Davenport, M.A., Seekamp, E. & Smith, J.W. (2015). Climate resilience in tourism-dependent communities on Minnesota’s north shore. (poster). *International Symposium on Society and Resource Management*, June 13-18, 2013, Charleston, SC.
- Kennedy, Rachael, Mark E. Burbach, Kristin Floress, & Eric Kaufman. “The Science Behind Water-Oriented Leadership Programs: How This Can Affect WaSH Post-2015 Policy.” 2014 Water and Health Conference, Chapel Hill, NC, October 15, 2014.
- Krometis L., Thompson, T., Blair, T., Kaufman, E. K., & Hession, W. C. (2015). Grade school student changes in STEM self-efficacy following participation in undergraduate-designed laboratory activities [Abstract]. Proceedings of the Conference on Higher Education Pedagogy, Blacksburg VA.
- McGuire, J. M. and L.W. Morton. 2014. “Farmer Identity in the U.S. Cornbelt.” *77th Annual Meeting of the Rural Sociological Society*, New Orleans, LA

Moore, Richard "Community-based Water Quality Trading: Lessons from Ohio". North Central Region Water Network Webinar titled The Current, August 20, 2014.

Moore, Richard. 2014, The Role of Water Quality Trading in Achieving Clean Water Objectives. Written Testimony. US House of Representatives Transportation Committee on Water Resources. March 25.

<http://transportation.house.gov/calendar/eventsingle.aspx?EventID=373351>

Morton, L.W. (2014, Jan 28). Communicating Climate Science in an Agricultural Context. Earth Science Systems Modeling USDA project directors meeting. Washington, DC. (~130)

Morton, L.W. Nov 5, 2013. Pathways for getting to better Water Quality, Protecting the St Croix ~200 people Morton, L.W. (2014, Jan & Feb) Farmer Responses to Risks Associated with Weather Variability. 2014 Illinois Crop Management Conference. Mt Vernon; and Urbana-Champaign

Morton, L.W.* J. McGuire, (2013, October 6-2013, October 10). The good farmer and the group effect Society for Ecological Restoration (SER) 2013 World Conference on Ecological Restoration.

Perry, V. & Davenport, M.A. (2015). Farmer conservation decision making and perceived behavioral control. *International Symposium on Society and Resource Management*, June 13-18, 2013, Charleston, SC.

Pradhananga, A. & Davenport, M.A. (2015). Drivers of landowner civic engagement in water resource conservation in the Red River Basin, Minnesota. *International Symposium on Society and Resource Management*, June 13-18, 2013, Charleston, SC.

Rebecca Busse*, Jessica D. Ulrich-Schad, and Linda Stalker Prokopy. (June 2015). "Understanding Effective Outreach for Water Quality in Indiana Watersheds." *International Symposium on Society and Research Management*; Charleston, SC.

Rebecca Busse*, Jessica D. Ulrich-Schad, and Linda Stalker Prokopy. (March 2015). "Understanding Effective Outreach among Lake Residents for Water Quality in the Upper Tippecanoe Watershed of Indiana." *Indiana Lakes Management Conference*; Syracuse, IN.

Rissman, Adena R. Adaptations to support ecosystem service provision. *UW Sustainability Forum, Office of Sustainability*. February, 2014. Madison, WI. <http://www.youtube.com/watch?v=9pk09pRb4aw#t=40>

Rissman, Adena R. Policy and governance challenges. *UW-Dane County partnership for the Yahara lakes: reducing agricultural phosphorus runoff "Manure Summit"*. Madison, WI May, 2014.

Science and Values in Relation to Farmer Identity in Iowa at the 2014 Iowa State University Extension Ag and Natural Resources Extension Faculty and Staff Meeting -- Ames, Iowa (Morton & McGuire) April 3 (~110)

Grants Funded or Ongoing in 2014-2015 (n=29)

Arbuckle, J.G. and Zhengyuan Zhu. Iowa Nutrient Reduction Strategy Farmer Survey. Iowa Department of Agriculture and Land Stewardship. \$299,990. 1/2015-6/2020.

Brantley, S., J. Abad, K. Brasier, R. Hooper, and C. Wilderman. "RCN-SEES: The Marcellus Shale Research Network." National Science Foundation. Funded November, 2011 – October, 2015 (\$750,000)

Brasier, K., T. Alter, T. Kelsey, M. Royer, T. Ryan, C. Unroe, W. Whitmer, and K. Zipp. "Pennsylvania Natural Resources Leadership Program Pilot Project." AESE Strategic Initiatives Funding. Funded January, 2015 – June, 2015 (\$5,850)

Burbach, M.E. Nebraska Water Leaders Academy (Years 5-7). Nebraska Environmental Trust. \$81,716. 4/2015-3/2018.

Davenport, M. Cannon River Watershed Partnership (Minnesota Pollution Control Agency 319). Building a culture of citizen engagement. M. Davenport, \$24,000 (UMN subcontract). 6/1/15-6/30/17.

Davenport, M. Freshwater Society. An Assessment of FarmWise and Its Impacts on Agricultural Practices: Phase II. \$10,000, 10/01/2014-7/31/2014.

Davenport, M. Great River Greening (Bush Foundation & Minnesota Board of Water and Soil Resources). Seven Mile Creek Community Assessment. \$60,000. 1/1/15-12/31/17.

Davenport, M. Initiative Foundation (Lessard Sams Outdoor Heritage Council). Aquatic invasive species project social science evaluation development. \$47,703. 1/1/15-6/30/19.

Davenport, M. Minnesota Department of Natural Resources. Groundwater management: Capacity assessment at the local level. \$16,868. 1/1/15-9/30/15.

Davenport, M. Minnesota Pollution Control Agency. Clean Water Performance Report: Social measures monitoring system. \$35,000.

Davenport, M. Minnesota State Colleges and Universities (Minnesota Pollution Control Agency). Community readiness and engagement in the Watonwan Watershed. \$14,736. 1/2/15-6/30/17.

Davenport, M. Ramsey-Washington Metro Watershed District, Capitol Region Watershed District, & Mississippi Watershed Management Organization. A Community Capacity Assessment for Stormwater Management in the Twin Cities Metro Area. \$153,440, 8/15/13-8/14/15.

Davenport, M. US Geological Survey National Institute for Water Resources. Research Assistantship in Water Resources. \$22,500, 3/1/14-2/28/16.

Davenport, M., Enzler, S., Neiber, J. & Wilson, B. Minnesota Sea Grant. Building Climate Readiness in Nature-Based Tourism-Dependent Coastal Communities. \$162,192, 2/15/14-2/14/16.

Davenport, M., Nelson, P., Kuphal, T. McKnight Foundation. Inspiring conservation action for nonpoint source pollution control: A guidebook. \$25,000, 9/15/14-9/14/15.

Host, G., Davenport, M., Enzler, S., Johnson, L. Minnesota Sea Grant. Integrative social and hydrologic models for enhanced resiliency of coastal communities under extreme weather events. \$239,465, 9/1/14-8/31/16.

Irwin, E., Moore, R.; Li, Y.; Shaw, A. Comprehensive Optimization for Bioenergy Systems (COBS). Department of Energy. \$6,953,322 08/16/2015-8/15/2020.

Kaufman, E. K. (2013-2014). Principal Investigator. “Eco-leadership in practice: Community involvement in Stroubles Creek.” Virginia Cooperative Extension Community Viability grant. Funded for \$10,000.

Kling, Cathy, David Kaiser, Lois Wright Morton, J. Gordon Arbuckle Jr. Nudging in the Face of Risk and Ambiguity Aversion: Adopting Cover Crops to Reduce Nutrient Pollution. \$75,000. USDA Economic Research Service. 7/1/2015-9/30/2018.

Kling, Cathy, Lois Wright Morton, and J. Gordon Arbuckle Jr. Social-Economic Dimensions of the Nutrient Reduction Strategy. \$175,000. Iowa Nutrient Research Center. 2013-2015.

Margerum, Richard D. The Impact of Governance on Regional Natural Resource Planning (with multiple Australian partners) Australian Research Council. \$180,000. 2013-2016.

Mary Harris, Matt Helmers, J. Gordon Arbuckle Jr., Matt Liebman, Matt O’Neal, Lisa Schulte-Moore, and John Tyndall. Facilitation of Multipurpose Prairie STRIPs Adoption by Iowa Farmers. \$52,511. Iowa State Soil Conservation Committee R&D Grant Program. 4/1/13-9/30/15.

Miguez, Fernando, John Tyndall, J. Gordon Arbuckle, Gabrielle Roesch, Andrea Basche. Covering the Ground: A transformative approach to scientific learning for greater cover crop adoption in Iowa. \$16,171. Leopold Center for Sustainable Agriculture. 3/2014-9/2015.

Moore, R. Alpine and Muskingum Nutrient Trading: 2012-2017 Renewal of the Alpine Nutrient Trading Plan. OSU service contract. (Approximately \$40,000 per year)

Morton, Lois Wright and J. Gordon Arbuckle Jr. North Central Region Fruit, Vegetable, and Wine Growers’ Assessment of Soil and Water Vulnerability under Changing Climate Conditions and Extreme Weather Events. National Laboratory for Agriculture and the Environment. \$75,000. 7/1/14-6/30/16.

Orth, D. J., Kaufman, E. K., & Schmitt, J. (2015-2018) Co-PI. “Quantifying the trophic impact of non-native blue catfish in Virginia’s tidal rivers.” Virginia Sea Grant Graduate Research Fellowship. Funded for \$120,000.

Prokopy, Linda, Mike Dunn, and Jessica D. Ulrich-Schad. “Examining the Conventional Wisdom: Do Demonstration Projects Influence Farmers to Adopt Conservation Practices?” 2015-2016 (\$50,000), *College of Agriculture, Seed Grant Proposal, Purdue University*.

Sliwinski, M., and Burbach, M.E. Collaborative Conservation in the Great Plains: Opportunities and Barriers for Cross-Property Private-Lands Management. USDA-NIFA-SARE, \$9,897. 10/2014-9/2016.

Theresa Selfa and Steve Shaw, Co-PIs. “Lake Ontario Basin Agriculture in the Coming Decades: Room for expansion or imminent future regional water conflict.” USDA AFRI Water for Agriculture Challenge Grant. \$125,471. May 2015-Dec. 2016.

Websites associated with water research conducted in support of NC1190 goals:

Levees and Flooding of Agricultural Land

Series <http://www.soc.iastate.edu/staff/wrightmorton/flooding.html>

USDA-NIFA Climate Change, Mitigation & Adaptation in Corn-based Cropping Systems Coordinated Agricultural Project (CAP) (Sustainable Corn CAP)

<http://www.soc.iastate.edu/staff/wrightmorton/flooding.html>

Leadership and performance-based watershed management

<http://www.soc.iastate.edu/staff/wrightmorton/flooding.html>

USDA-NIFA Useful to Usable (U2): Transforming Climate Variability and Change Information for Cereal Crop Producers. Retrieved from: <http://drinet.hubzero.org/u2uproject>